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(54) GAS CONTROL VALVE

(57) Abstract:

PURPOSE: To facilitate assembly of a damper diaphragm and permit the damping effect to be developed effectively by forming the annular concaved parts each having a small hole on the upper and lower membrane plates which clamp a diaphragm therebetween and allowing said small holes to communicate to the small hole on a diaphragm.

CONSTITUTION: The upper edge of a valve body 5 is abutted with the contact part 7 of a damper diaphragm 6, and placed oppositely to the nonmagnetic pushing rod 17 at the lower edge of a plunger 12, keeping the contact part 7 interposed. The damper diaphragm 6 is clamped vertically by the membrane plates 9 and 10, and the circumferential concaved part 26 is formed on each membrane plate 9, 10, and a small hole 11 as a spill port is formed on the concaved part, and also a small hole 11 as damper hole is formed on the damper diaphragm 6 corresponding to the concaved part 26. As the small holes on the membrane plates 9 and 10 always communicate through the concaved

part 26, fabrication is facilitated and the damping function is promoted effectively, even if alignment of small holes on the membrane plates 9 and 10 is not taken care of.

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